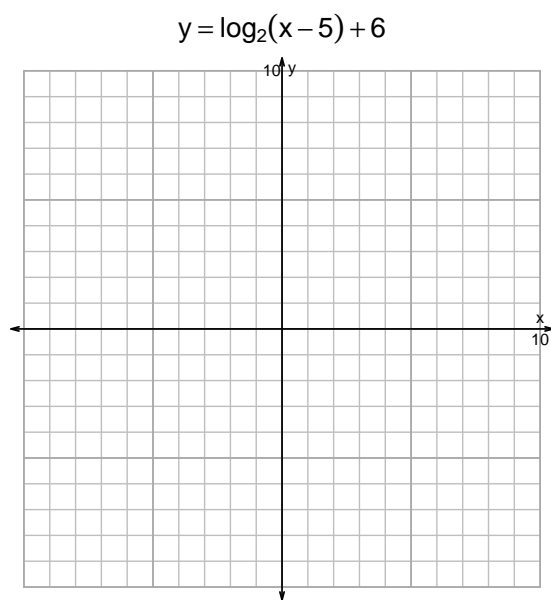
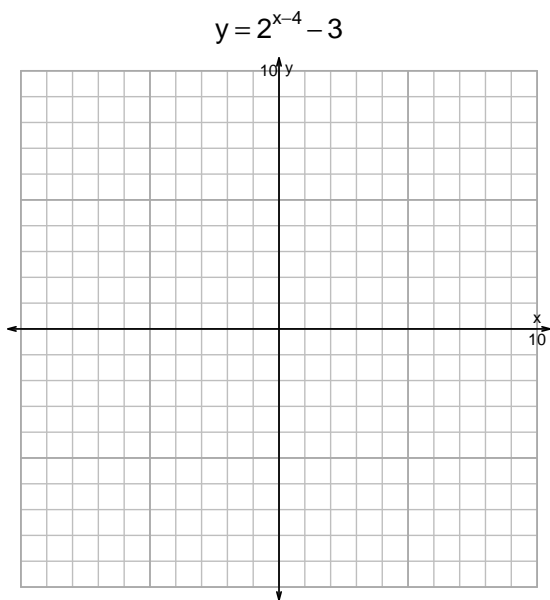


Name: _____

Date: _____

s18QUIZ: EXP LOG (QUIZ v256)

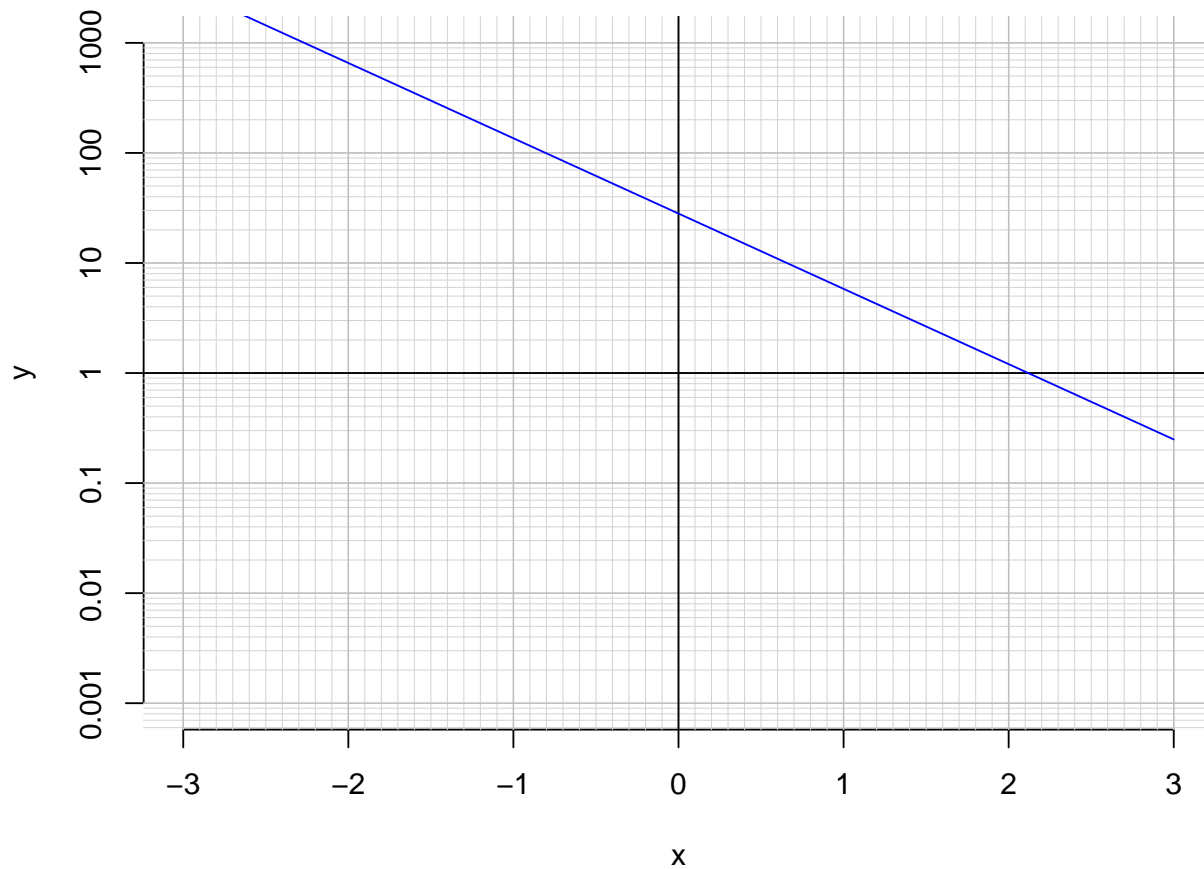
1. Graph $y = 2^{x-4} - 3$ and $y = \log_2(x - 5) + 6$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-17 = \left(\frac{-7}{4}\right) \cdot 2^{3t/5}$$

3. An exponential function $f(x) = 28.1 \cdot e^{-1.58x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(2.7)$.

- b. Express $f^{-1}(x)$, the inverse of f .

- c. Using the plot above, evaluate $f^{-1}(900)$.